Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

- 1. (Previously Presented) An RF-circuit including an amplifier and a controllable mixer, the controllable mixer having at least one mixing transistor, to which mixing transistor an oscillator signal and an input signal are supplied, wherein the input signal comprises a useful signal and further signals, and wherein an output signal is produced as an output of the mixer, wherein a controller is provided, which applies a control signal to the mixing transistor as a function of the signal quality of the demodulated output signal, wherein the operating point of the at least one mixing transistor can be set by means of the control signal, in which case the intermodulation immunity and/or the noise in the output signal can be varied as a function of the operating point of the at least one transistor, wherein a controllable portion of the overall gain of the RF-circuit is determined by the operating point of the at least one mixing transistor.
- 2. (Currently Amended) The <u>RF-circuit</u> controllable mixer according to Claim 1, wherein a demodulator which is connected downstream from the mixer, and an evaluation circuit are provided for assessment of the signal quality of the demodulated output signal.
- 3. (Currently Amended) The <u>RF-circuit</u> eontrollable mixer mixer according to Claim 2, wherein the evaluation circuit assesses the error rate of a digitally coded signal.
- 4. (Currently Amended) The <u>RF-circuit</u> controllable mixer mixer according Claim 1, wherein a memory is provided for recording initial values, on the basis of which the signal quality can be assessed and optimized.
- 5. (Currently Amended) The <u>RF-circuit</u> eontrollable mixer mixer according to Claim 4, wherein the initial values comprise information about a desired minimum signal quality, the symbol rate, the code rate, and/or the modulation method, and optimization routines for reception optimization can be selected as a function of the initial values.

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6. (Currently Amended) A method for of controlling a mixer in an RF circuit receiver

having further comprising an amplifier and a demodulator, wherein the mixer has at least

one mixing transistor, to which mixing transistor an oscillator signal and an input signal are

supplied, wherein the input signal comprises a useful signal and further signals, and

wherein an output signal is produced as an output of the mixer, the method comprising the

following steps:

- assessing the signal quality of the demodulated output signal;

- setting the operating point of the at least one mixing transistor as a function of the quality

of the demodulated output signal, wherein the intermodulation immunity and/or the noise of

the at least one transistor are set by means of the operating point of the at least one mixing

transistor,

wherein the method is further comprised by

- setting a controllable portion of the overall gain of the RF-circuit by setting the operating

point of the at least one mixing transistor.

7. (Previously Presented) The method according to Claim 6, wherein the error rate of a

digitally coded signal is evaluated in order to assess the signal quality.

8. (Previously Presented) The method according to Claim 6, wherein initial values

which are stored at the start are selected in order to assess the signal quality and in order to

set the operating point of the transistor.

9. (Previously Presented) The method according to Claim 8, wherein different initial

values and/or optimization routines are selected for different modulation methods, code

rates and/or symbol rates.

10. (New) The RF-circuit of claim 1, wherein the at least one mixing transistor is a

bipolar transistor, wherein the gain of the at least one mixing transistor increases and the

intermodulation immunity decreases when the operating point is set such that the collector

current is reduced, and wherein the gain of the at least one mixing transistor decreases and

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the intermodulation immunity increases when the operating point is set such that the collector current is increased.

11. (New) The RF-circuit of claim 1, wherein the controllable portion of the overall gain of the RF-circuit is exclusively determined by setting the operating point of the at least

one mixing transistor.

12. (New) The method of claim 6, wherein the controllable portion of the overall gain of

the RF-circuit is exclusively determined by setting the operating point of the at least one

mixing transistor.

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